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29 Dec. 1951.

[redacted] Requested info on status and location of production Prototypes – Called [redacted] who reported that the proto's shipped from Motorola on 27 Dec. were for the first 500 and not for the production quantity. This was confirmed by [redacted] to call Motorola today (Sat) if possible and get a promise as to when the Prod. Proto's can be expected. [redacted]

29 Dec. 1951 –

Conference this date – P.M. –

Agenda – [redacted] of R&D. Troubles encountered in RS-6 rework were reviewed, particularly the noise problem. [redacted] reported that rework was being done by a few [redacted] recommended people. Sets were then given to the inspectors, after check by inspectors, the sets go to the final inspectors, then the supervisors, and finally to [redacted]. This is 3 inspections before submission to [redacted] who still rejects 60 to 80% of the sets. – Many of the rejects are caused by careless re-work. i.e. when one defect is repaired another one is caused. Three of the 18 sets submitted by Motorola were checked in the lab for noise. These three sets did not show excessive vibrator hash. [redacted] reports that the hash noise in the sets he rejected at Chicago ~~was~~ was considerably worse than that in the sets here.

In the interest of getting RS-6 sets that can be used in the field, and in view of [redacted] month inability to produce sets, and in view of the fact that

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It was recommended by [redacted] STAT that the better sets be selected by [redacted] STAT at Chicago and be shipped out here for rework. [redacted] STAT stated he could furnish 4 men, R&D could assign [redacted] STAT for design & test respectively. This procedure would supply equipment for a critical need but would put the Agency in the embarrasing position of accepting recognized ~~and~~ and admittedly defective equipment. This would be a dangerous precident and would leave us open to [redacted] STAT charges that we had accepted a quantity of the equipment.

[redacted] STAT wanted an accurate noise test with numbers on the tolerances. Inasmuch as [redacted] STAT has, in general, failed to use any of our recommended testing procedure, the request appears assanine, however a procedure will be worked out. [redacted] STAT is to return to [redacted] STAT on Wed - 2 Jan 1952 and will report in by phone [redacted] STAT

This plan for rework by the agency was submitted verbally to the Commo Executive officer who reserved judgement on this procedure.

[redacted] STAT

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[redacted] called [redacted] above date. Discussed noise STAT
problem on D.C. operations. He was told that measure-
ments taken here showed that the additional
capacity used to ground did not appreciably help
when the pet is taken out of irradiated field
such as encounted in screen room or
reinforced concrete building. If the screen room
is grounded to the pet and a short antenna is
wrapped about the plug and power supply, comparative
hash measurements can be taken. [redacted] STAT was
also informed that the three pets sent up by
our inspectors were satisfactory. He was told that
engineering sees it had no objection to putting
in the additional capacity if by so doing he could
get some of the noggins out of the
woodpile and standing production; that it would
greatly facilitate testing under conditions met in
the plant. [redacted] STAT

2 Jan. 1952 - 1430 PM

[redacted] STAT
called - [redacted] STAT called him & STAT
[redacted] reported that the target date
for submission of production prototypes ~~test~~
and specs for the RS-6 had been advanced
to 11 Jan 1952. [redacted] STAT

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3 Jan. 1962

[redacted] Called - 1400 pm. - He has recd TWX [redacted] STAT
saying that they will put in a .5 mf cond. to filter the
hash noise at an additional cost of $1. [redacted] STAT
Think that the $1.00/set cost not justified. The original Dwg of
RP-6 did not show any filter cap. from vibrator reed to gnd.
The Dwg in the RS-6 XK book shows a .02 from reed to gnd.
This indicates that Motorola was aware of the noise. Attempted
to get [redacted] STAT
to get [redacted] for an opinion on whether to authorize
the additional expenditure but no luck due to staff meeting.
[redacted] STAT

3 Jan: 1600 pm. STAT

[redacted] called - he had a call from [redacted] A conference was STAT
held at [redacted] this AM. [redacted] reported that it was STAT
decided to rework all defective sets again and really make
them perform satisfactorily. [redacted] was reported to have STAT
recommended the addition of the .5 mf cond. from reed
to ground. [redacted] was asked for an O.K. authorizing STAT
its use. [redacted] stated he had no objection to its STAT
inclusion providing that there was no additional cost
to the govt. [redacted] stated that the condenser could be STAT
incorporated without additional cost to the govt. STAT
[redacted] made it very plain that [redacted] did not authorize STAT
any additional cost.

Called [redacted] back and explained the situation to him, STAT
pointing out that we have no objections to the condenser,
in fact we believe it will be good insurance against
noise. also stated that [redacted] told Motorola we would STAT
OK the inclusion of the .5 mf. but did not request
[redacted] STAT

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additional cost. TWX recd [redacted] STAT requesting this cost was signed by [redacted]. The statement that the condenser would be included without cost was STAT made by [redacted] STAT

[redacted] - 1620 hrs - 3 Jan 52 STAT

STAT

3 Jan -

[redacted] called - wanted to know how long after we had recd the proto's & Spec for the prod. equip would we be prepared to have a conference [redacted] & two STAT [redacted] that we would want a week to study the spec STAT prior to a discussion. Also told him that not less than 6 weeks would be required to conduct complete Prototype tests

[redacted] - 3 Jan 1952

STAT

4 Jan 1952

The plan for agency rework of the RS-6 sets was laid before the Deputy Chief Engineer today with no indication of eventual acceptance or rejection x STAT [redacted]

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4 Jan 1952

Called [redacted] STAT for clarification on cost of putting the ½ mf. cond. in rib. Four Seff, [redacted] STAT told [redacted] that we had a report that Motorola was going to install the condenser at no cost to Govt. [redacted] STAT denied knowledge of this and re-iterated that he considered this to be additional work and warranted additional cost, particularly since [redacted] STAT had submitted 5 prototype to the Agency representative and had been approved. He said the approval was in writing from Contracting officer and stated that the 500 should be like the 5 prots. (units). He bases his contention for additional pay on this written ok. [redacted] STAT said that [redacted] STAT stated that we do not want the condenser - Seff [redacted] STAT on the same wire and called [redacted] STAT bluff. [redacted] STAT said he would like the condenser but couldn't justify the expenditure of Agencies funds. Told [redacted] STAT that considerable time may elapse in getting an approval for the additional $1.00/set. Was agreed between [redacted] STAT and [redacted] STAT that [redacted] STAT would reject all sets considered too noisy. The disposition of the noisy sets will await future decisions. [redacted] STAT asked [redacted] STAT if a screened room for noise tests, similar to our Dan T-22 setup, could be made available to [redacted] STAT Thought this could be arranged. [redacted] STAT After talking to [redacted] called.

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STAT

[redacted] talked to [redacted] & told him of STAT
our discussion with [redacted] reiterated the STAT
previous statement that [redacted] would fix STAT
the noise. He further stated that [redacted] STAT
said that [redacted] himself had been in on the STAT
noise problem and informed his engineers that
their reputations in the Car Radio business
would suffer if this vibrator noise [illegible] got out — Therefore fix the thing! [redacted]
to Call [redacted] and tell him about the screen
Room [redacted] STAT

STAT

STAT

Jan 15 1952

[redacted] STAT called [redacted] on length of plugs in RR-6.
[redacted] reports [redacted] production breaking off STAT
plugs in rebellyment and replug'g plate. Told
[redacted] STAT that the minimum allowable screw length
above collar shall be 1/16" and our inspector
has been advised to reject any sets with
less plug length.

[redacted] STAT also agrees to our contention that
the addition of the 5 uf condenser on the
vibrator reed ~~only~~ serves in the main to
reduce the [illegible] radiated noise as encountered
in the plant. Just outside that artificial
field there is very little operational improvement.

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the pin alignment of some of the four pin amphenol production plugs is off to such a degree that it is possible to plug them in 3 three ways. This variation of tolerance shall have to be more carefully watched by the contractors quality control. Four specific instances of this sloppyness has been reported and Motorola which has in the past been requested to index the plugs shall be again urged to control the plug spacing and index the plugs.

STAT [redacted]

Jan 18 1952

STAT [redacted] called and cited the following situation: Phasers are not adjusting circuits as per maximum Calibration accuracy. If the alignment is within acceptable limits they do not try to bring circuits into optimum adjustment. We have asked the Contractors design unit repeatedly to take sample sets from the line and check accuracy of calibration in an effort to control the quality of the phasers. It is suggested that Works Manager both be informed

1) The minimum allowable play after final phasing shall be 1/16" between the bottom of the coil housing and the slug slot.

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② that plane be instructed to set into a calibration alignment as closely as possible.

STAT

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